

S3 File. Tables of sub-analysis

Factors associated with *B. abortus* seropositivity among abattoir workers in Mwanza city between May and July 2017

Characteristic	<i>B. abortus</i> sero positivity	Univariate		Multivariable	
		Chi-square test/ Mann Whitney Ranksum test	P-Value	OR (95%CI)	P-Value
Age	32(IQR25-38)		0.001	1.04(0.98-1.10)	0.150
Marital status					
Single (36)	13(36.11)				
Married (110)	68(61.82)	1.00	0.007	1.57(0.61-4.01)	0.342
Residence					
Urban 109)	57(52.29)				
Rural (37)	24(64.86)	1.77	0.184	1.84(0.75-4.45)	0.177
Education level					
Secondary (33)	8(24.24)				
Primary (113)	73(64.60)	16.84	>0.001	3.77(1.45-9.76)	0.006
Accidents					
NO(20)	8(40.00)				
YES(126)	73(57.94)	2.25	0.134	1.17(0.39-3.48)	0.774
Fluid splash					
NO(67)	35(52.24)				
YES(79)	46(58.23)	0.52	0.468		
Bruises					
NO(42)	20(47.62)				
YES(104)	61(58.65)	1.47	0.225		
*Work duration(years)	8(IQR:4-15)		0.003		

*Work duration has collinearity with age therefore it was not subjected in multivariate analysis

Factors associated with *Brucella* spp. seropositivity among abattoir workers in Mwanza city between May and July 2017

Characteristic	<i>Brucella</i> spp. sero positivity	Univariate		Multivariable	
		Chi-square test/ Mann Whitney Ranksum test	P-Value	OR (95%CI)	P-Value
Age	31(IQR:25-38)		0.005		
Marital status					
Single (36)	15(41.67)				
Married (110)	69(62.73)	4.92	0.026	1.38(0.57-3.31)	0.467
Residence					
Urban (109)	59(54.13)				
Rural (37)	25(67.57)	2.04	0.153	1.72(0.72-4.09)	0.217
Education level					
Secondary (33)	10(30.30)				
Primary (113)	74(65.49)	12.94	>0.001	2.93(1.19-7.23)	0.019
Accidents					
NO(20)	8(40.00)				
YES(126)	76(60.32)	2.91	0.088	1.36(0.45-4.05)	0.580
Fluid splash					
NO(67)	37(55.22)				
YES(79)	47(59.49)	0.27	0.603		
Bruises					
NO(42)	21(50.00)				
YES(104)	63(60.58)	1.36	0.242	1.56(0.70-3.45)	0.267
Work duration(years)	7.5(IQR:4-13.5)		0.011	1.05(0.97-1.13)	0.179

Factors associated with *Brucella* spp. seropositivity among meat vendors in Mwanza city between May and July 2017

Characteristic	<i>Brucella</i> spp. sero positivity	Univariate	
		Chi-square test/ Mann Whitney Ranksum test	P-Value
Age	38(IQR:24-45)		0.235
Marital status			
Single (22)	7(31.82)		
Married (82)	30(36.59)	0.17	0.678
Residence			
Urban (103)	37(35.92)		
Rural (1)	0(0.00)	2.56	0.455
Education level			
Secondary (18)	6(33.33)		
Primary (86)	31(36.05)	0.04	0.827
Accidents			
NO(12)	5(41.67)		
YES(92)	32(34.78)	0.21	0.639
Fluid splash			
NO(27)	9(33.33)		
YES(77)	28(36.36)	0.08	0.777
Bruises			
NO(42)	21(50.00)		
YES(83)	29(34.94)	0.07	0.787
Work duration(years)	6(IQR:3-16)		0.205